

WHAT IS CLAIMED IS:

1. A thermoplastic resin integrated structure, which comprises a structural member (A) molded from a resin composition (a) comprising 5-80% by weight of polyacetal resin (a-1) and 20-95% by weight of at least one resin (a-2) selected from the group consisting of polyolefin resin, olefinic elastomer and hydrogenated butadienic elastomer, and a structural member (B) molded from thermoplastic resin (b), the integrated structure including at least one structure of the structural member (A) and the structural member (B) as integrated together side by side.

2. A thermoplastic resin integrated structure according to Claim 1, which further comprises a structural member (C) molded from polyacetal resin (c) and includes at least one structure of structural member (C) - structural member (A) - structural member (B) as integrated together in this order.

3. A thermoplastic resin integrated structure according to Claim 2, wherein the structural member (A) is composed of at least two elements each molded from the resin compositions (a) which are different from each other in the composition.

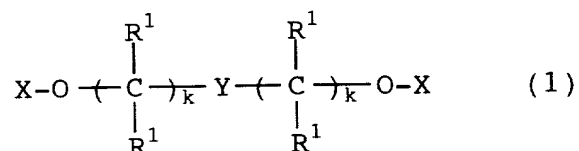
4. A thermoplastic resin integrated structure according to Claim 3, wherein content of polyacetal resin (a-1) in the element in contact with the structural member (C) is larger than that of polyacetal resin (a-1) in the element in contact with the

5. A thermoplastic resin integrated structure according to Claim 1, wherein the polyacetal resin (a-1) is a polyacetal copolymer having hydroxyalkyl groups at the molecule terminals and a hydroxyalkyl group terminal concentration of not less than 5×10^{-5} mole per mole of oxymethylene units.

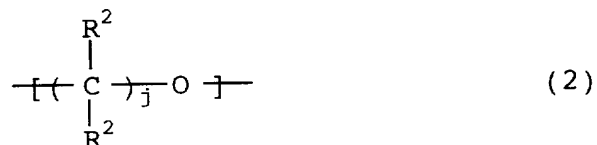
7. A thermoplastic resin integrated structure according to Claim 1, the polyacetal resin (a-1) comprises a polyacetal block copolymer obtained by copolymerizing cyclic acetal with cyclic ether and/or cyclic formal, using a polymer having at least one hydroxyl group and a molecular weight of 500-10,000 as a chain transfer agent.

8. A thermoplastic resin integrated structure according to any one of Claims 1-7, wherein the polyacetal resin (a-1) comprises a polyacetal block copolymer having a number average molecular weight of 10,000-500,000, which comprises polyacetal segments (X) and a hydrogenated polybutadiene segment (Y) having a number average molecular weight of 500-10,000, hydroxy-alkylated at both ends, represented by the following

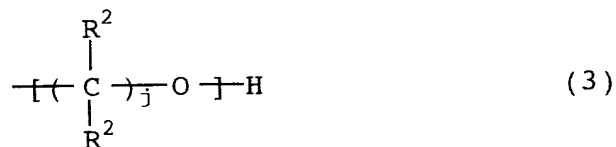
formula (1):



[where X comprises 95-99.9 mol.% of oxymethylene units and 0.1-5 mol.% of oxyalkylene units represented by the following formula (2):



(where R² is independently selected from the group consisting of hydrogen, an alkyl group, a substituted alkyl group, an aryl group and a substituted aryl group and j is an integer selected from 2 to 6), and the terminal groups are polyacetal copolymer residues having a structure represented by the following formula (3):



(where R² and j have the same meanings as defined above), Y is a hydrogenated polybutadiene containing 70-98 mol.% of 1,2 bonds and 2-30 mol.% of 1,4 bonds

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9. A thermoplastic resin integrated structure according to Claim 1, wherein the resin (a-2) is at least one resin selected from the group consisting of polyethylene homopolymer, polyethylene copolymer, block copolymer containing ethylene as the main component and ionomer.

11. A thermoplastic resin integrated structure according to Claim 1, wherein the resin (a-2) is a resin composition comprising at least one resin selected from the group consisting of polyethylene homopolymer, polyethylene copolymer, block copolymer containing ethylene as the main component and ionomer, and at least one resin selected from the group consisting of modified α -olefinic polymers.

12. A thermoplastic resin integrated structure according to Claim 8, wherein the resin (a-2) is a resin composition comprising at least one resin selected from the group consisting of polyethylene homopolymer, polyethylene copolymer, block copolymer

containing ethylene as the main component and ionomer, and at least one resin selected from the group consisting of modified α -olefinic polymers.

13. A thermoplastic resin integrated structure according to Claim 1, wherein the thermoplastic resin (b) is a polyolefin resin.

14. A thermoplastic resin integrated structure according to Claim 1, wherein the thermoplastic resin (b) is a resin selected from the group consisting of polyethylene homopolymer, polyethylene copolymer, block copolymer containing ethylene as the main component, ionomer and mixtures of at least two thereof.

15. A thermoplastic resin integrated structure according to Claim 8, wherein the thermoplastic resin (b) is a resin selected from the group consisting of polyethylene homopolymer, polyethylene copolymer, block copolymer containing ethylene as the main component, ionomer and mixtures of at least two thereof.

16. A thermoplastic resin integrated structure according to Claim 1, wherein the thermoplastic resin (b) is a modified α -olefinic polymer.

17. A thermoplastic resin integrated structure according to Claim 1, wherein the thermoplastic resin (b) is a polyacetal resin.

18. A thermoplastic resin integrated structure according to Claim 1, wherein the thermoplastic resin (b) is a polyamide resin.

19. A thermoplastic resin integrated structure

according to Claim 1, wherein the structural member (A) and the structural member (B) are integrated together by welding.

20. A thermoplastic resin integrated structure according to Claim 8, wherein the structural member (A) and the structural member (B) are integrated together by welding.

21. A thermoplastic resin integrated structure according to Claim 1, wherein the structural member (A) and the structural member (B) are integrated together by a molding process selected from the group consisting of injection molding of different materials, resin insert injection molding, coextrusion molding of different materials and multilayer blow molding.

22. A thermoplastic resin integrated structure according to Claim 2, wherein the structural members (C)-(A)-(B) are integrated together in this order by welding or a molding process selected from the group consisting of injection molding of different materials, resin insert injection molding, coextrusion molding of different materials and multilayer blow molding.

23. Automobile parts made from the thermoplastic resin integrated structure according to Claim 8.

24. Automobile fuel-tank-related parts made from the thermoplastic resin integrated structure according to Claim 8.

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